



Potential Acoustic Impacts Webinar

December 14, 2011

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Development of Webinar Series:

- Subgroup of the Federal Renewable Ocean Energy Working Group
NOAA, BOEMRE, DOE, EPA
- Pacific Northwest National Laboratory—
Provides technical assistance and houses webinars within the environmental database, *Tethys*

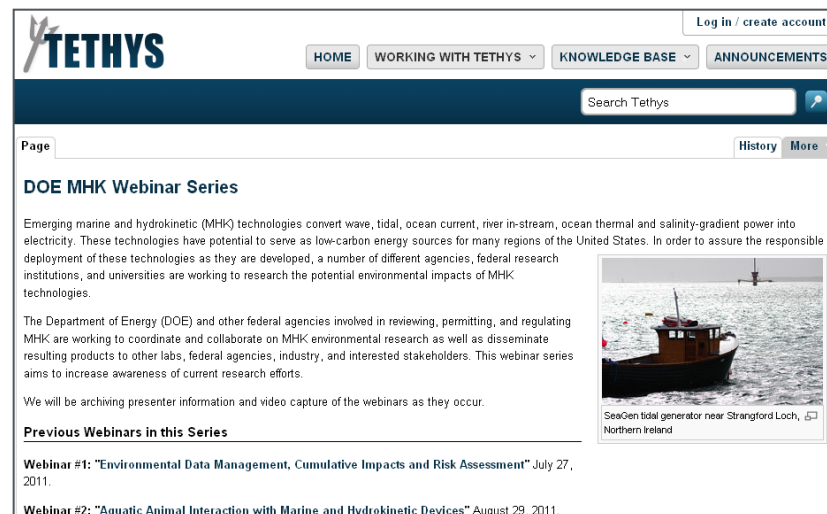
Series Goals:

1. To identify gaps and priority areas for future research efforts.
2. To communicate ongoing studies and results.
3. To help inform siting and permitting efforts.



Additional webinars:

1. Data Management, Risk Assessment, and Cumulative Effects Analysis (July 27th)
2. Aquatic Animals and Device Interactions (August 29th)
3. Monitoring Technologies and Strategies (September 14th)



The screenshot shows the TETHYS website interface. At the top, there is a navigation bar with links for HOME, WORKING WITH TETHYS, KNOWLEDGE BASE, and ANNOUNCEMENTS. A search bar is located below the navigation bar. The main content area features a section titled "DOE MHK Webinar Series". The text describes emerging marine and hydrokinetic (MHK) technologies and the Department of Energy's (DOE) role in reviewing, permitting, and regulating these technologies. A small image of a boat is shown on the right side of the page. Below the main text, there is a section for "Previous Webinars in this Series" listing two webinars: "Environmental Data Management, Cumulative Impacts and Risk Assessment" (July 27, 2011) and "Aquatic Animal Interaction with Marine and Hydrokinetic Devices" (August 29, 2011).

Webinars can be accessed at:

http://mhk.pnnl.gov/wiki/index.php/DOE_MHK_Webinar_Series

December 14, 1-3:30 EST Acoustic Impacts

- **Noise Feedback from 8 Years of Ocean Energy Experience in Scotland** (Gareth Davies, Aquatera, Ltd)
- **Assessing the Population Level Impacts of Acoustic Disturbance Associated with Marine Energy Devices on Marine Organisms** (John Harwood, University of St. Andrews)
- **Estimating the Marine Mammal Response to Noise from a Tidal Energy Project** (Brian Polagye, University of Washington)
- **Association Between Underwater Noise Exposure and Tissue Damage** (Michele Halvorsen, Pacific Northwest National Laboratory)
- **Underwater Noise Measurements of 1/7th Scale Wave Energy Converter** (Chris Bassett, University of Washington)

DISCUSSION PERIOD—HOW TO ASK A QUESTION

The screenshot shows a virtual meeting interface. At the top, there is a menu with 'File', 'View', and 'Help'. Below that is an 'Attendee List' window showing 118 attendees and 3 staff members. The attendees are listed in a table with columns for name and status. The names listed are Vembu Subramanian, Wade Cooper, William Forney, William McAnally, and Zack Steele. Below the attendee list is an 'Audio' section with options for 'Telephone' (selected) and 'Mic & Speakers'. It also displays dial-in information: Dial: +1 (312) 878-0511, Access Code: 207-162-944, and Audio PIN: 181. A red box contains the text: 'If you're already on the call, press #181# now. (and additional numbers ...)'. Below the audio section is a 'Questions' chat area with a green instruction box: 'To ask the presenters questions, raise your virtual hand to be unmuted or type your question into the question area.' Below this is a text input field with the placeholder '[Enter a question for staff]' and a 'Send' button. At the bottom of the interface, there is a title bar for the presentation: 'Presentation on the "Decision Guide: Selecting Decision Support Tools for Marine Spatial Planning"'. A green arrow points from the 'Questions' chat area in the screenshot to the list of instructions on the right.

This is a close-up screenshot of the 'Questions' chat area. It shows a blue header with the text 'Talking: melissa foley'. Below the header is a 'Questions' section with a green instruction box: 'To ask the presenters questions, raise your virtual hand to be unmuted or type your question into the question area.' Below this is a text input field with the placeholder '[Enter a question for staff]' and a 'Send' button. A green arrow points from the 'Questions' chat area in the screenshot to the list of instructions on the right.

- 20 minute presentation, 5 minute Q&A following each presentation
- Please submit questions using the question chat feature. We will NOT be using the virtual hand raise function.
- Staff will compile questions and pose to presenters at appropriate Q&A periods.